| Une the Paperwork Reduction Act of 1999                                                                                    |                           |                                                                      |                                         |                          | PTO/SB/21 (02-04)                                      |
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| TRADENT                                                                                                                    |                           | Application Number                                                   | 10/772,225                              |                          | _                                                      |
| TITAL OF THE                                                                                                               |                           | Filing Date                                                          | 02/04/2004                              |                          |                                                        |
| FORM                                                                                                                       |                           | First Named Inventor                                                 | Chen                                    |                          |                                                        |
| (to be used for all correspondence after initial                                                                           | filing)                   | Art Unit                                                             |                                         |                          |                                                        |
|                                                                                                                            |                           | Examiner Name                                                        |                                         | <del></del>              |                                                        |
| Total Number of Pages in This Submission                                                                                   |                           | Attorney Docket Number                                               | SC-03-02                                |                          |                                                        |
|                                                                                                                            | ENCI                      | LOSURES (Check all that                                              | apply)                                  |                          |                                                        |
| Fee Transmittal Form                                                                                                       |                           | Drawing(s)                                                           | A                                       |                          | ance communication ogy Center (TC)                     |
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| Fee Attached                                                                                                               |                           | icensing-related Papers                                              |                                         |                          | and Interferences<br>mmunication to TC                 |
| Amendment/Reply                                                                                                            |                           | Petition                                                             | <b> </b>   "                            | Appeal Not               | tice, Brief, Reply Brief)                              |
| After Final                                                                                                                |                           | Petition to Convert to a<br>Provisional Application                  |                                         | roprietary               | Information                                            |
| Affidavits/declaration(s)                                                                                                  |                           | Power of Attorney, Revocation<br>Change of Correspondence Addre      | S                                       | tatus Lett               | er                                                     |
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| Document(s)                                                                                                                | ļ                         |                                                                      |                                         |                          |                                                        |
| Response to Missing Parts/<br>Incomplete Application                                                                       |                           |                                                                      |                                         |                          |                                                        |
| Response to Missing Parts                                                                                                  |                           |                                                                      |                                         |                          |                                                        |
| under 37 CFR 1.52 or 1.53                                                                                                  |                           |                                                                      |                                         |                          |                                                        |
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| SIGNA                                                                                                                      | TURE O                    | F APPLICANT, ATTORN                                                  | EY, OR AGEN                             | IT                       |                                                        |
| Firm Robert O. Groover III                                                                                                 |                           |                                                                      |                                         |                          |                                                        |
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| I hereby certify that this correspondence is t<br>sufficient postage as first class mail in an er<br>the date shown below. | eing facsir<br>velope add | mile transmitted to the USPTO or<br>dressed to: Commissioner for Pat | deposited with the<br>ents, P.O. Box 14 | e United 8<br>150, Alexa | States Postal Service with<br>andria, VA 22313-1450 on |
| Typed or printed name                                                                                                      |                           |                                                                      |                                         |                          |                                                        |
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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Chen : Art Unit: Serial No. 10/772,225 : Examiner:

Filed: 02/04/2004 : Atty's Docket: SC-03-02

For: Three-Dimensional Tooth Orientation for Roller Cone Bits

## INFORMATION DISCLOSURE STATEMENT

Honorable Commissioner of Patents and Trademarks Washington, DC 20231

Sir:

The accompanying form PTO-1449 lists one or more documents which may be considered material to the examination of this application. A copy of each document is provided, if available.

Applicant reserves the right to establish the patentability of the claimed invention over any of the listed documents should they be applied thereagainst as references, and/or to prove that some of these documents may not be prior art, may not be within an analogous field of art, and/or may not be enabling for the teachings they purport to offer.

This statement should not be construed as a representation that an exhaustive search has been made, nor that more material information does not exist.

The Examiner is specifically requested to conduct an independent and thorough review of the documents, and to form his own opinions as to the significance of those documents to patentability of the claimed inventions, regardless of any of the foregoing statements concerning the significance of the references. The foregoing statements are made in good faith, and in compliance with the duty of disclosure; but they cannot substitute for the Examiner's specialized expertise, nor are they intended to derogate from the Examiner's official duty to assess patentability.

It is also respectfully noted that the submission of this material is **not** intended to displace the Examiner's professional ability and duty to search. Indeed, the Examiner is specifically requested **not** to rely on the materials submitted herewith, but to conduct a full and independent search.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, to indicate in the file of this patent application that the documents have been considered.

Respectfully submitted,

Robert O. Groover III Registration No. 30,059 Agent for Applicant

Date: March 31, 2004

11330 Valleydale Drive, Dallas, TX 75230 972-363-3038

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| INF                               | ORMATION | DIS | SCLOSURE | Filing Date            | 02/04/2004 |  |  |
| STATEMENT BY APPLICANT            |          |     |          | First Named Inventor   | Chen       |  |  |
|                                   | ///      | -4  |          | Art Unit               |            |  |  |
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| Sheet                             | 1        | of  | 4        | Attorney Docket Number | SC-03-02   |  |  |

|                       |                                                                          | NON PATENT LITERATURE DOCUMENTS                                                                                                                                                                                                                                 |    |  |  |  |
|-----------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|--|--|
| Examiner<br>Initials* | Cite<br>No. <sup>1</sup>                                                 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T² |  |  |  |
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| Examiner  | Date       |  |
| Signature | Considered |  |

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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

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|                       |                                                                                                                                           | NON PATENT LITERATURE DOCUMENTS                                                                                                                                                                                                                                 |                |  |  |  |  |
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| Examiner<br>Initials* | Cite<br>No. <sup>1</sup>                                                                                                                  | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |  |  |  |  |
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| Examiner  | Date       |  |
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| Signature | Considered |  |

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| INFORMATION DISCLOSURE            | Filing Date            | 02/04/2004 |  |
| STATEMENT BY APPLICANT            | First Named Inventor   | Chen       |  |
|                                   | Art Unit               |            |  |
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| Sheet 3 of 4                      | Attorney Docket Number | SC-03-02   |  |

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| Examiner<br>Initials* | Cite<br>No. <sup>1</sup>                                                            | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |  |  |  |
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|                       | 22                                                                                  | Brochure entitled "Twist & Shout", (SB2255, 1001), 4 pages.                                                                                                                                                                                                     |  |  |  |
|                       | 23                                                                                  | Plaintiff's Original Complaint for Patent Infringement and Jury Demand, filed September 6, 2002, in the U.S. District Court for the Eastern District of Texas,                                                                                                  |  |  |  |
|                       |                                                                                     | Sherman Division, Civil Action No. 4-02CV269, Halliburton Energy Services, Inc. v. Smith International, Inc., 4 pages, 09/06/2002.                                                                                                                              |  |  |  |
|                       | 24                                                                                  | Answer and Counterclaim of Smith International, filed March 14, 2003, in the U.S. District Court for the Eastern District of Texas, Sherman Division,                                                                                                           |  |  |  |
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|                       | 25                                                                                  | Response of Plaintiff and Counterclaim Defendant to Defendant's Counterclaim of Declaratory Judgment, filed April 3, 2003, in the U.S. District Court for the Eastern                                                                                           |  |  |  |
|                       |                                                                                     | District of Texas, Sherman Division, Civil Action No. 4-02CV269, Halliburton Energy Services, Inc. v. Smith International, Inc., 3 pages, 04/03/2003.                                                                                                           |  |  |  |
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|                       | 26                       | First Amended Answer and Counterclaim of Smith International, filed October 9, 2003, in the U.S. District Court for the Eastern District of Texas,                                                                                                              |  |  |
|                       |                          | Sherman Division, Civil Action No. 4-02CV269, Halliburton Energy Services, Inc. v. Smith International, Inc.,8 pages, 10/09/2003.                                                                                                                               |  |  |
|                       | 27                       | Memorandum Opinion of Judge Davis, signed February 13, 2004, in the U.S. District Court for the Eastern District of Texas, Sherman Division,                                                                                                                    |  |  |
|                       |                          | Civil Action No. 4-02CV269, Halliburton Energy Services, Inc. v. Smith International, Inc.,37 pages (including fax coversheet), 02/19/2004.                                                                                                                     |  |  |
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|                       |                          | Economic Research on Chemical and Petroleum Machine Building, Series KhM-3, Oil Industry Machine Building, BSSR Republic Scientific and Technical Library (1991).                                                                                               |  |  |
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